

8:30 a.m.

BREAKFAST & AWARDS FOR GRADUATING SENIORS – *The Commons*

10:15 – 11:05 a.m.

FIRST PRESENTATION SESSION

College of Arts and Sciences
Environmental Studies

Presentation – *Buckley Center 314*
Faculty Sponsors: Steven Kolmes and Russ Butkus

"Energy and Recycling." The Integrating Seminar in Environmental Studies has been examining ways to move our campus closer to sustainability. The two aspects this presentation will deal with are moving toward carbon-neutral energy purchases and use on campus, and increasing campus recycling. Presented by Nicholas Comstock, Autum Dierking, Chris Lambert, Nick McCormick, Travis Petchell, Lacey Riddle, Hiroko Tomiyoshi, and James Wickersham.

College of Arts and Sciences
English

English Capstone/Thesis Presentations – *Franz Hall 026*
Faculty Sponsor: Herman Asarnow

"I Don't Hate the South': Quentin Compson, Identity and Faulkner's Postcolonial South." Presented by Sarah Bigelow.

"Willa Cather and Bohemian Immigrants: Anti-Americanization in My Ántonia." Presented by Laurel Yecny.

"Discovering Potential: A Lesson from Willa Cather and the Natural World." Presented by Annemarie Grimaldi.

College of Arts and Sciences
Foreign Languages

Presentation – *Franz Hall 223*
Faculty Sponsor: Kathleen Regan

"Exploring the World: Foreign Language Immersion Experiences in Europe and Latin America I." Students will present their experiences living and learning a foreign language in Spain, France, Germany, Austria and Latin America. Presented by Patrick Orr, Angela Klaassen, Emily Mannix, David Gregg, Ingrid Hannan.

College of Arts and Sciences
Biology

Student Research Presentations – *Franz Hall 231*
Faculty Sponsor: Ami Ahern-Rindell

"Detection of Mycoplasma Infection and Species Cross-Contamination in Cell Culture." Presented by Julie Markus and Rachel Prusynski.

"Examination of Elastogenesis in Fibroblasts from GM1 Gangliosidosis Sheep." Presented by Allison Ritchie.

School of Nursing

Presentation – *Buckley Center Auditorium*
Faculty Sponsor: Lorretta Krautscheid

"Are Computer Keyboards Safe?" A look at why bedside computer keyboards are an infection-control problem in healthcare. Presented by Tami Vanderwert and Heather Smith.

School of Education

Presentation – *Franz Hall 206*
Faculty Sponsor: Rich Christen

"The Giving Tree." Senior Secondary Education students will discuss their student teaching experiences. Presented by Jake Babcock, Ashley Burton, Dan Cosgrove, Alexa Duda, Kelly Gardner, Shaun Ghyselinck, Megan Gill, Julie Gingrich, Anne Graner, Heidi Jensen, Amy Klennert, Hannah Lawrence-Pine, Anne Maloney, Megan McDonald, Noel Peterson, Nicole Schiffer, Jacob Smeraglio, Beth Watje, Christina Winfree.

School of Engineering

Presentation – *Shiley Hall 216*
Faculty Sponsor: Joseph Hoffbeck

“Digital Tire Pressure Monitoring System.” Presented by John M. Hirano, James C. Kelly, Kevin M. Young; industry representative Paul Menig, Daimler Trucks North America, LLC.

Presentation – *Shiley Hall 216*
Faculty Sponsor: Karen Ward

“Freshmen Engineering Database for the University of Portland.” Presented by John M. Doxtator, Kevin L. Farr, Christopher S. Taketa; industry representative Todd Gentry, Harland Financial Solutions, Incorporated.

Presentation – *Shiley Hall 216*
Faculty Sponsor: Steven Vegdahl

“RFID SMS (Security Monitoring System).” Presented by Rebekah S. Lam, Johnson K. Lee, Peter Pham; industry representative Brian Olsen, Harland Financial Solutions, Incorporated.

College of Arts and Sciences
Social and Behavioral Sciences

Social Work: Service and Social Justice I – *Franz Hall 214*
Faculty Sponsors: Joseph Gallegos, Anissa Rogers, Lakshmi Tata, Heidi Allen, Catherine Beckett.

“Falls Prevention and Hospice Care for the Elderly.” Presented by Megan Bell and Caitlin Becker.

“Using psychodynamic and behavioral theories with autistic children.” Presented by Bridget Domeier.

“Integration of Turkish Immigrant Children in the German School System.” Presented by Jeanie Toscano.

“Breaking the cycle: A call for restorative justice. Challenging the negative social and legal attitudes of for-profit US prison system.” Presented by Trace Adevai and Laramie Babbitt.

“From Manic To Depressive and Back: Understanding Bi-Polar Disorder.” Presented by Jackie Gieck and Josephine Corder.

College of Arts and Sciences
Biology

Honors Program Senior Thesis Presentation – *Franz Hall 034*
Faculty Sponsor: James G. Stemler

“Chronic Pelvic Pain and Women’s Health Physical Therapy.” Presented by Chelsea Kerr.

School of Nursing

Presentation – *Buckley Center Auditorium*
Faculty Sponsor: Diane Vines

“Sleep Tight.” This presentation is about the resurgence of bed bugs. The presenters have learned that this is a problem in the high-rise buildings that the Housing Authority of Portland operates. They discovered that there is a disconnect between Public Health and Public Housing. The presenters have learned that bed bugs are coming back everywhere in the world. Bed bugs were controlled in the 1950s by the use of the pesticide DDT, but we now know that this is harmful to humans. The presenters will discuss their findings and the measures used to detect and control the bed bug population. Presented by Emily Cammarano, Theresa Kindell, and Brigid O’Kane.

College of Arts and Sciences
Political Science

Senior Presentations – *Franz Hall 006*
Faculty Sponsors: Lauretta Frederking and Gary Malecha

"Women and Foreign Policy Effects." Presented by Amelia Vanderzanden.

"Encouraging Sustainable Transportation Policy in Developing Countries through Public-Private Relationships." Presented by Thomas Ngo.

"Going Public in Changing Arenas." Presented by Kristine Gluekert.

"Liberty and Justice for All: A Pragmatic Social Archtype." Presented by Jeff Gill.

11:15 – 12:05 p.m.

SECOND PRESENTATION SESSION

College of Arts and Sciences
English

English Capstone/Thesis Presentations: *Franz Hall 026*
Faculty Sponsor: Herman Asarnow

"A Loser, But Not All the Way: Philip Marlowe Snaps in Robert Altman's 'The Long Goodbye.'" Presented by Rachel Good.

"The Biology of Ophelia: An Ecosystem Analysis of Hamlet." Presented by Alice Rossignol.

"Finding a Space for Spanish: The Reconciliation of Languages in Latina-American Literature." Presented by Angela Klaassen.

School of Nursing

Presentation – *Buckley Center Auditorium*
Faculty Sponsors: Diane Vines, Kaye Wilson-Anderson and Linda Veltri

"SIDS: Cause and Cure." The Toxic Gas Theory is a theory that has come out of both Great Britain and New Zealand. The theory postulates both a cause and a cure for SIDS, aka Cot Death. The theory is highly controversial and there is much debate in the scientific community as to its validity. If it is proven, this would be a huge step forward in the battle against SIDS. Presented by Caitlin Jenes and Sarah Knotts.

College of Arts and Sciences
Theology

Presentation – *Franz Hall 006*
Faculty Sponsor: Robert Duff /Matthew Baasten

"Divorce: It's Not You, Babe, It's Society... Or Is It?" Presented by Katie Hargett, Polyanna Manning, Diana Ziser, Tyler Gulyas, and James O'Keeffe.

School of Education

Presentation – *Franz Hall 206*
Faculty Sponsor: Lynn Scappel

"Learning in the Elementary Classroom." Presented by Haelynne Barron, Bri Caldwell, Kelli Cronkite, Shaunn Cruz, Lauaren Gusdorf, Jamie Halpenny, Emma Harrison, Brittany Healy-Tuky, Kacey Higa, Scott Hourigan, Megann Imdieke, Nikki Kriek, Kelly Milliron, Elizabeth Newmann, Megan Palmer, Heather Perry, Patrice Pierre, Nicole Presnell, Sarah Rios-Lopez, Jennifer Smith, Lora Soriano, Kelly Sullivan, Allison Vandehey, Kelly Whitehouse, and Chelsea Williamson.

School of Engineering

Presentation – *Shiley Hall 216*
Faculty Sponsor: Wayne Lu

"WOC-60: Wind Output Converter to 60Hz." Presented by William B. Acorda, Tammy M. Okubo, and Meghan E. Tisdell; industry representative Swetha Varadharajan, Intel Corporation.

	<p>Presentation – <i>Shiley Hall 216</i> Faculty Sponsors: Peter Osterberg and Robert Albright</p> <p>"Educational Ball and Beam Feedback Control System." Presented by David M. Kim, Thomas C. Neveu, and Bryan M. Weber; industry representative Mike DeSmith, Intel Corporation.</p>
School of Nursing	<p>Presentation – <i>Buckley Center Auditorium</i> Faculty Sponsor: Diane Vines</p> <p>"Beyond Borders: Community Experience in Africa." A community clinical experience working in Sub-Saharan Africa at a pediatric HIV/AIDS clinic, the local government hospital and surrounding villages. Presented by Amanda Tuttle.</p>
College of Arts and Sciences Social and Behavioral Sciences	<p>Social Work: Service and Social Justice II – <i>Franz Hall 214</i> Faculty Sponsors: Joseph Gallegos, Anissa Rogers, Lakshmi Tata, Hiedi Allen, and Catherine Beckett.</p> <p>"Stretching the Idea of Mental and Physical Health: Yoga as Intervention." Presented by Jaime Hedlund.</p> <p>"The National Association of Social Workers (NASW): Social workers at both the national and state levels." Presented by Mark Wheeler.</p> <p>"Rehabilitative foundation of the juvenile justice system." Presented by Bryan Koehnke and Debbie Morgan.</p> <p>"DHS Behind the Scenes." Presented by Stefanie Guerrero.</p> <p>"NAYA: Empowering the lives of Native Americans in Portland." Presented by Kate Coulter.</p> <p>"American Cancer Society: Relay for Life." Presented by Emily Nolan.</p> <p>"The Voices of Gender Queer Youth: How they perceive their gender and implications for social services." Presented by Colleen Brunell.</p>
College of Arts and Sciences Foreign Languages	<p>Presentation – <i>Franz Hall 223</i> Faculty Sponsor: Kathleen Regan</p> <p>"Exploring the World: Foreign Language Immersion Experiences in Europe and Latin America II." Students will present their experiences living and learning a foreign language in Spain, France, Germany, Austria and Latin America. Presented by Ashley Young, Ashley Beck, Joe Coulter, Emily Mannix, Brady Shinn, and Ingrid Hannan.</p>
College of Arts and Sciences Chemistry and English	<p>Honors Program Senior Thesis Presentations – <i>Franz Hall 034</i> Faculty Sponsor: James G. Stemler</p> <p>"Analysis of swab data collected at forensic laboratory for the presence of controlled substances via GCMS." Presented by Holly Gramkow.</p> <p>"William Carlos Williams: Patients, Prose, and Poetry." Presented by Megan Barrus.</p>
College of Arts and Sciences Biology	<p>Student Research Presentations – <i>Franz Hall 231</i> Faculty Sponsor: Ami Ahern-Rindell</p> <p>"Identifying the Genetic Mutation Responsible for Ovine GM1 Gangliosidosis Using Northern Blotting." Presented by Ryan Stouffer.</p>

"Isolation and Characterization of Beta-Galactosidase in an Ovine Model of GM1 Gangliosidosis." Presented by Jake Luty.

"New Approaches to Huntington's Disease Therapy: Investigating Combined Drug and Intracellular Antibody Treatments in a Drosophila Model." Presented by Sarah Bortvedt.

College of Arts and Sciences
Social and Behavioral Sciences

Presentation – *Franz Hall 015*
Faculty Sponsor: Andrew Guest

"Psychology Senior Thesis Presentations." Senior psychology majors will be presenting on the research that constitutes their senior theses. The presentations will include:

"College Students' Attitudes and Uses of Pornography and Gender Differences." Presented by Rachel Jacobus

"Am I my Brother's Keeper? Egoism and Altruism in Volunteer Disaster Responders." Presented by Lawrence Behmer

"The Effect of Voluntary Motor Enrichment on Recovery of Executive Functions following Medial Frontal Cortical Contusion Injury in Rats." Presented by Andrew Crane and Kyle Fink

College of Arts and Sciences

Presentation – *Franz Hall 217*
Faculty Sponsor: Anne Marie Wolf, Cara Hersh, Caery Evangelist

"Medieval Philosophy." Presented by Michael Schmitz

"Letters to Amiens: Crusader Bernard Villedieu Writes Home." Presented by Eddie Hammond

"The Importance of Taxation in the Early Muslim World." Presented by Maureen Inouye

"The Nun's Priest's Tale: Dining Decides Destiny." Presented by Annemarie Poginy

12:15-1:05 p.m.

PRESENTATION SESSION 2A

School of Engineering

Presentation – *Shiley Hall 216*
Faculty Sponsor: Aziz Inan and Peter Osterber

"Synchronous Chorded Keypad Input." Presented by RuthAnn Gobble, Jordan M. Way, Jonathan M. Wong

Presentation – *Shiley Hall 216*
Faculty Sponsor: Karen Ward

"RC-VTOL: Remote Controlled Vertical Take-Off and Landing Model Airplane." Presented by Aaron P. Duane, Jesse W. Fledderjohann, Hilary E. Henderson, Christopher M. Hope.

Presentation – *Shiley Hall 216*
Faculty Sponsor: Joseph Hoffbeck and Zia Yamayee

"Electronic Ballast for a Fluorescent Lamp." Presented by Lance D. McGuire, Samuel J. Nelson, Samuel P. Ortiz, Jordan P. Stone

	<p>Presentation – <i>Shiley Hall 216</i> Faculty Sponsor: Bart Rylander</p> <p>"A Personal GPS Heads-Up Display." Presented by Matthew J. Gridley, Timothy R. Morris, Nathan J. Oliver</p> <p>Presentation – <i>Shiley Hall 216</i> Faculty Sponsor: Andrew Nuxoll and Tammy VanDeGrift</p> <p>"Instant Message Control System." Presented by Kenneth K. Lee, Michael D. Rumely, Vladimir A. Shvets, Robert A. Vandermeulen.</p>
12:15 – 2:00 p.m.	LUNCH – <i>The Commons</i>
2:15 – 3:05 p.m.	THIRD PRESENTATION SESSION
Pamplin School of Business Center for Entrepreneurship	<p>Presentation – <i>Franz Hall 231</i> Faculty Sponsor: Jon Down</p> <p>"Elevator Pitch Competition." This event is open to all UP students to compete in or to attend. If you'd like to give a one-minute elevator pitch describing your business idea and opportunity, sign up in the Center for Entrepreneurship. Twenty five slots are available on a "first come first served" basis. Or just come to be part of the audience and vote for the winners. Prize for the top finisher, as determined by the audience, is an i-Pod Nano! Starbucks gift cards for second and third place.</p>
College of Arts and Sciences Philosophy	<p>Senior Presentations – <i>Franz Hall 217</i> Faculty Sponsor: Alejandro Santana</p> <p>"Law as a Good Idea: A Case for Legal Positivism." Presented by Tyler Ornsby</p> <p>"Ethics and Global Climate Change." Presented by Thomas Ngo.</p> <p>"The Dawn of a New Therapeutic Era: The Ethics of Genetic Engineering." Presented by Treshia Sewell.</p>
College of Arts and Sciences Theology	<p>Presentation – <i>Franz Hall 223</i> Faculty Sponsor: Matthew Baasten/Robert Duff</p> <p>"Work, Marriage, and the Family: A Delicate Balance." Presented by Ashley N. Beck, Jenna Adler Finney, Jessica L. Gaston, Bethany R. Herman, and Alison H. Moran</p>
College of Arts and Science Foreign Languages	<p>Presentation – <i>Franz Hall 214</i> Faculty Sponsor: Lora Looney</p> <p>"Creative Writing from 2007 Segovia, Spain, Study Abroad program." Presented by Kourtney Kiest, Lisa Soehren, Katie Carlos, Myra Cause, Nadine Crosby, Katie Hargett</p> <p>"This will be a bilingual presentation of creative writing pieces that students from the Segovia Study Abroad summer 2007 completed while studying in Segovia, Spain."</p>
College of Arts and Sciences History	<p>Senior Thesis Projects – <i>Franz Hall 206</i> Faculty Sponsor: Brian J. Els</p> <p>Matthew Hall, Alexa Duda, and David Gregg present their History Senior Thesis projects. Come hear about the Tuskegee Airmen, environmentalism in Germany, and Socialist Finns in Astoria!</p>

School of Engineering

Presentation – *Shiley Hall 216*

Faculty Sponsor: Lulay, Timothy Doughty, and Wayne Lu

“Winrobo. A proof of concept device that autonomously washes windows to compete in the ASME design competition.” Presented by Laurie B. Miller, Anna L. Pereira, Katherine C. Cameron

Presentation – *Shiley Hall 216*

Faculty Sponsor: Kenneth Lulay and V. Dakshina Murty

“SAE Aero Design West 2008 Competition (Regular Class).” Presented by Andrew J. Boyes, Christopher J. Hainley, Henry N. Hanson, Kyle P. Mechling, Kelly J. Nelson, Alexander R. Trolese, Prem K. Vuppuluri.

“Design and build a remote controlled cargo airplane that will carry a calculated amount of weight through take-off, flight and landing implementing an iterative design process to prove concepts and optimize manufacturing processes.”

SAE Baja – *Shiley Hall 216*

Faculty Sponsor: Kenneth Lulay and Peter Chamberlain

SAE Baja consists of the design and fabrication of a small single-seat off-road vehicle that will compete with other universities and technical schools.

Presenters: Troy W. Heynderickx, William M. Hortsch (Team Captain), Kevin M. Kauffman, Jeffrey R. Kuhs, Bass M. Lien, Thomas R. McDaniel, Spencer Tam, Zephyrus H. Uusitalo.

Industrial Representatives: Ryan Jefferis, Freightliner; Sean Edwards, ESCO; Jeff Street, ESCO.

Sponsors: The Chiles Foundation, Don Galarneau, General Electric, Competition Motorsports, The University of Portland.

3:15-4:05 p.m.

PRESENTATION SESSION 3A

School of Engineering

Presentation – *Shiley Hall 216*

Faculty Sponsor: Wayne Lu and Peter Chamberlain

“Robotic Prosthetic Arm.” Presented by Corban E. Monger, Ashlee Snodgrass, Joshua B. Ttrika

“Design and build a remote controlled cargo airplane that will carry a calculated amount of weight through take-off, flight and landing implementing an iterative design process to prove concepts and optimize manufacturing processes.”

Presentation – *Shiley Hall 216*

Faculty Sponsor: Aziz Inan and Peter Osterberg

“Fast Fourier Transform Processor.” Presented by Sandra R. Pellecer, Neil J. Tuttle, Ziyuan Zhang.

Presentation – *Shiley Hall 216*

Faculty Sponsor: Mark Kennedy

“Engineers Without Borders: Potable Water Supply for a Central American Village in Guatamala.” Presented by Bethany M. Foran, Jeffrey A. Kostechka, Sarah E. Ziaja.

ALL DAY

POSTER PRESENTATIONS

COLLEGE OF ARTS AND SCIENCES

Chemistry – Franz Hall 2nd Floor Sky Bridge and Hallways

"Investigating the Molecular Interactions Between Solute and Cosolvent Molecules in Supercritical Carbon Dioxide." Presented by Justin Hesser, Agatha Brzezinski, Vincent Manning, Kevin McCann, and Steven G. Mayer. Faculty Sponsor: Steve Mayer. We investigated the effect of adding acetonitrile to supercritical carbon dioxide (scCO_2) in the presence of rhodamine B. The spectra that we collected reveal several trends that are indicative of the mechanical constraint on the acetonitrile. An increase in temperature causes the stretching modes to blue shift; whereas an increase in the acetonitrile concentration causes the same modes to red shift. An interesting effect that we did not anticipate is that the bending modes appear to be completely unaffected by either a change in temperature or concentration. Furthermore, the individual stretching modes of both acetonitrile and CO_2 are shifted by a different amount, which may lend some insight into spatial orientation of the molecules in the cybotactic region. At these concentrations of acetonitrile in scCO_2 , we do not observe any difference in the spectra with the inclusion of rhodamine B. This is in direct contrast with the effect of rhodamine B on the cosolvent that we reported in the literature for low concentrations ($\sim 0.001\%$) of acetonitrile. Apparently, acetonitrile at a concentration of 0.5% in scCO_2 behaves more as it would in the bulk phase than it does at much lower concentrations.

"Extraction & PCR Preparation of Nuclear DNA from *Taxus* & *Penicillium*." Presented by Jonathan Mauser. Faculty Sponsor: Angela Hoffman.

"Antimicrobial Activity from Acorn and Bitter Melon." Presented by Thuy-Tien Pham and Tam Hoang. Faculty Sponsor: Angela Hoffman.

"A Temperature Controlled Affinity Column for Taxol Separation and Purification." Presented by Will Toomey. Faculty Sponsor: Angela Hoffman.

Communication Studies – Franz Hall 2nd Floor Sky Bridge and Hallways

"Living with Invisible Fences: The Relationship between Asian Fathers and their Westernized Daughters." Presented by Elike Ide. Faculty Sponsor: Elayne Shapiro.

"How Cultural Factors Influence Males' Perceptions of Women's Humor in the Workplace." Presented by Sasha Walia. Faculty Sponsor: Jeff Kerssen-Griep

"Ethics in the Workplace: Comparing Professionals and Students." Presented by Cassie Lay. Faculty Sponsor: Michael Rabby.

"Through the Glass: Looking at Social Construction Theory and Emotion Coaching to Help Abused Children." Presented by Ally Hinzman. Faculty Sponsor: Elayne Shapiro.

"The Good Daughter." Presented by Stephanie Chandler. Faculty Sponsor: Elayne Shapiro.

"How Satire Functions in 'Family Guy.'" Presented by Alyssa Williams. Faculty Sponsor: Dann Pierce.

Mathematics – Franz Hall 2nd Floor Sky Bridge and Hallways

"Early Transcendental Functions and 'Tangent' Lines A." After Sir Isaac Newton and Gottfried W. Leibniz invented similar versions of differential and integral calculus around 1680; they and others like Bernoulli's brothers, Euler, Cauchy, and D'Alembert, used those versions to explain natural phenomena or new ways of mathematical reasoning. Today we use calculus to study orbits or to maximize or minimize the best possible outcome of particular situations. We shall present the optimal shape of a number of applications represented by well-behaved and differentiable functions (type A).

Presenters: Malory Fry, Olivia Bentley, Creede Caldwell, Jason Han, and Danielle Coryell. Faculty Sponsor: Jose L Vazquez Bello.

"Early Transcendentals and 'Tangen' Lines Type B." After Sir Isaac Newton and Gottfried W. Leibniz invented similar versions of differential and integral calculus around 1680; they and others like Bernoulli's brothers, Euler, Cauchy, and D'Alembert, used those versions to explain natural phenomena or new ways of mathematical reasoning. Today we use calculus to study orbits or to maximize or minimize the best possible outcome of particular situations. We shall present the optimal shape of a number of applications represented by well-behaved and differentiable functions Type B.

Presenters: Anna Sherman, Kim Schuldt, Lizzy Fraser, and Nick Constock. Faculty Sponsor: Jose L Vazquez Bello.

"Early Transcendentals and 'Tangen' Lines Type C." After Sir Isaac Newton and Gottfried W. Leibniz invented similar versions of differential and integral calculus around 1680; they and others like Bernoulli's brothers, Euler, Cauchy, and D'Alembert, used those versions to explain natural phenomena or new ways of mathematical reasoning. Today we use calculus to study orbits or to maximize or minimize the best possible outcome of particular situations. We shall present the optimal shape of a number of applications represented by well-behaved and differentiable functions type C.

Presenters: Kendra Chandhoke, Billy Pedey, Peter Stenberg, James May, and Carolyn Borsch. Faculty Sponsor: Jose L Vazquez Bello.

"Early Transcendentals and 'Tangen' Lines Type D." After Sir Isaac Newton and Gottfried W. Leibniz invented similar versions of differential and integral calculus around 1680; they and others like Bernoulli's brothers, Euler, Cauchy, and D'Alembert, used those versions to explain natural phenomena or new ways of mathematical reasoning. Today we use calculus to study orbits or to maximize or minimize the best possible outcome of particular situations. We shall present the optimal shape of a number of applications represented by well-behaved and differentiable functions Type D.

Presenters: Kate Iwamoto, Candice Roberts, Jared Dunahay, and Damon Austin. Faculty Sponsor: Jose L Vazquez Bello.

"Early Transcendentals and 'Tangen' Lines Type E." After Sir Isaac Newton and Gottfried W. Leibniz invented similar versions of differential and integral calculus around 1680; they and others like Bernoulli's brothers, Euler, Cauchy, and D'Alembert, used those versions to explain natural phenomena or new ways of mathematical reasoning. Today we use calculus to study orbits or to maximize or minimize the best possible outcome of particular situations. We shall present the optimal shape of a number of applications represented by well-behaved and differentiable functions Type E.

Presenters: Bobby Thiel, Adam Carahalios, Laura Jenkins, and Nathan Banet. Faculty Sponsor: Jose L Vazquez Bello.

"Early Transcendentals and 'Tangen' Lines Type F." After Sir Isaac Newton and Gottfried W. Leibniz invented similar versions of differential and integral calculus around 1680; they and others like Bernoulli's brothers, Euler, Cauchy, and D'Alembert, used those versions to explain natural phenomena or new ways of mathematical reasoning. Today we use calculus to study orbits or to maximize or minimize the best possible outcome of particular situations. We shall present the optimal shape of a number of applications represented by well-behaved and differentiable functions Type F.

Presenters: Beth Ho, Laramie Marquis, Sarah Froce, Loan Duong, and Anna Itoh. Faculty Sponsor: Jose L Vazquez Bello.

Physics – Franz Hall 2nd Floor Sky Bridge and Hallways

"Characterizing Soliton Behavior in Noise-Mediated One-Way Coupled Oscillators." Presented by Christine E. Weidert. Faculty Sponsor: Barbara Breen.

Social and Behavioral Sciences – Franz Hall 2nd Floor Sky Bridge and Hallways

"Social Work: Service and Social Justice." Presented by Michelle Emry "Alternative Therapy Group Methods: Sculpture as a therapy tool." Faculty Sponsor: Joseph Gallegos, Anissa Rogers, Lakshmi Tata, Heidi Allen, Catherine Beckett.

SCHOOL OF NURSING

Buckley Center Auditorium

"What Do Watermelons and Giving Birth Have to Do With Each Other?" Presented by Beth Ann Nyssen. Faculty Sponsor: Diane Vines.

"Inverness Jail." Presented by Trisha Mendoza and Justin Metzler. Faculty Sponsor: Diane Vines.

"Jefferson High School – Stress & Coping." Presented by Kaitlyn Strebin and Geraldine Teraza. Faculty Sponsor: Diane Vines.

"What You Need to Know About Your U.P. Health Center." Presented by Emily Gill, Chelsea Hughes, Laura Williams and Stephanie Bennett. Faculty Sponsor: Diane Vines.

"The MacDonald Center." Presented by Bella Alexander and Corinne Malmgren. Faculty Sponsor: Diane Vines.

"8 NW 8th Hotel/Central City Concern." Presented by Angela Kaseweter and Chelsea Green. Faculty Sponsor: Diane Vines.

"TPI (Transition Projects)." Presented by Christy Bowker and Samantha Gregson. Faculty Sponsor: Diane Vines.

"MacDonald Center & Residence." Presented by George Donnor and Esther Allegri. Faculty Sponsor: Diane Vines.

"Share Homestead (Kitchen Safety)." Presented by Katy Bern and Holly VanDomelen. Faculty Sponsor: Diane Vines.

"8 N.W. 8th." Presented by Bailey Saleumvong and Tara Henkelman. Faculty Sponsor: Diane Vines.

"Share Shelters." Presented by Kerisha Steermen and Angie Glenn. Faculty Sponsor: Diane Vines

"Albina Early Headstart." Presented by Cassandra Mattson, Maren Culleney and Amanda Smith. Faculty Sponsor: Diane Vines

"Children's Relief Nursery." Presented by Stephanie Boles, Beth Farrell, Kerry Quinn and Laura Jackson. Faculty Sponsor: Diane Vines.

"HAP." Presented by Sarah Bishop and Emily Cammarano. Faculty Sponsor: Diane Vines.

"HAP." Presented by Sydney Rea. Faculty Sponsor: Diane Vines.

"Albina Early Headstart." Presented by Jamie Mendenhall and Cassie Mueller. Faculty Sponsor: Diane Vines.

"HAP." Presented by Cari Chan. Faculty Sponsor: Diane Vines.

"Free Women's Health for Jean's Place." Presented by Maria Nemes and Katie Rowe. Faculty Sponsor: Diane Vines.

"Albina Early Headstart." Presented by Janine Lequire. Faculty Sponsor: Diane Vines.

"HAP." Presented by Teresa Kindell. Faculty Sponsor: Diane Vines.

"Health Disparities: An Introduction." Presented by Rachel Rucker and Sarah Rabimova. Faculty Sponsor: Diane Vines.

"Beach Elementary." Presented by Tricia Weatherly and Dani Schwanz. Faculty Sponsor: Diane Vines.

"Hooper Detox." Presented by Jason Kephart, Robert Evans, Nicole Shuck, Laurie Soderstrom. Faculty Sponsor: Diane Vines.

"Blanchet House." Presented by Kelsey Castello and Melinda Richkind. Faculty Sponsor: Diane Vines.

"Blanchet House." Presented by Amy Hughes and Kelli Newcom. Faculty Sponsor: Diane Vines.

"MacDonald Residence." Presented by Michele Kline and Taryn Brendtro. Faculty Sponsor: Diane Vines.

"Rose Quarter Hotel." Presented by James Burnett and Arne Johnsen. Faculty Sponsor: Diane Vines.

"Community Health Nursing: Promoting Health & Justice." Presented by Sarah Fountain and Wendy Park. Faculty Sponsor: Diane Vines.

"Share Family Shelters/Smoking Cessation." Presented by Kenny Otley and Liz McGovern. Faculty Sponsor: Diane Vines.

"HAP Hollywood East." Presented by Nicole Albers, Carmella Desimone and Bernadette Williams. Faculty Sponsor: Diane Vines.

"HAP." Presented by John Moore. Faculty Sponsor: Diane Vines.

"Playground Safety." Presented by Khue Bui, Nicole Hancock and Allie Clark. Faculty Sponsor: Diane Vines.

"Portland Nativity School." Presented by Jessica Gerig. Faculty Sponsor: Diane Vines.

"HAP." Presented by Annette Johnson. Faculty Sponsor: Diane Vines.

"HAP." Presented by Charlene Kelso and Teresa Kindell. Faculty Sponsor: Diane Vines.

"Portland Nativity School." Presented by Valerie Brewer. Faculty Sponsor: Diane Vines.

"Beyond Borders: Community Experience in Africa." Presented by Amanda Tuttle, Faculty Sponsor: Diane Vines.

"HAP." Presented by Candice Donovan. Faculty Sponsor: Diane Vines.

SCHOOL OF EDUCATION

Franz Hall 1st Floor Lobby

"MAT Students' Capstone Research Projects." Masters in Teaching students present posters of their capstone research projects.

"Effects of Daily Mindfulness Practices on Stress Levels of Fourth Grade Students." Presented by: Michelle K. Abernathy

"Enhanced Spelling: Does it work?" Presented by: Bonnie Adams

"The Effect of Role-Models on Middle School Students' Attitudes Towards Science." Presented by: Torsten Anderson

"The History Textbook Reconsidered." Presented by: Garrett Apland

"Communication in the Digital Age: Text Messaging and Literacy." Presented by: Neal Barbour

"Virtuous Citizens or Republican Machines? How Thomas Jefferson and Benjamin Rush Influenced a Philosophical Divide in Citizenship Education." Presented by: Paul Bartels

"Access: Heritage Language Literacy Material Available in Middle School Libraries." Presented by: Alyson Battistel

"Art and the Writing Process." Presented by: Molly Bromley

"Does the Use of Mathematics Manipulatives Foster Learning Within an Early Childhood Setting?" Presented by: Holly Bryant

"Gentle Teaching: The Effect of Fostering Relationships on Classroom Behavior." Presented by: Emily Buck

"The Effect of Stand-Alone-Music on Students' Attitudes." Presented by: Emily Burrows

"Using Technology to Increase Female Attitudes Toward Middle School Science Class." Presented by: Jaimie Carr

"Primary Sources in the History Classroom." Presented by: Robert Coulson

"Teaching Literacy Through Music." Presented by: Anneke Dorsch

"Constructivism and Achievement." Presented by: Scott Drakulich

"School Uniforms: Teacher and Student Perspectives." Presented by: Benjamin Ellenwood

"How does Engagement Affect First Graders' Reading Levels?" Presented by: Holly Engelgau

"The Impact of Movement in One's Classroom." Presented by: David Exley

"How Exercise Affects Academic Achievement." Presented by: Emily Ferguson

"Universal Design for Learning and its Effect on Learners." Presented by: Luke Gaynor

"Student Thoughts About Coaches Who Teach." Presented by: Andrew Gorder

"The Effect of Project G.L.A.D. on Literacy." Presented by: Danielle Harrington

"Math and Music: Is There a Connection?" Presented by: Chris Heath

"Increased Mathematical Understanding with the use of Manipulatives." Presented by: Jamie Homberg

"More Than Musical Intelligence." Presented by: Eva Hortsch

"Student Questions in the Classroom and Academic Achievement." Presented by: Katherine Jansen

"Guided Language Acquisition Design (GLAD)." Presented by: Zachary Keenan

"Literacy Strategies for Improving Reading Comprehension in a Second Grade Classroom." Presented by: Lillian H. Kidwell

"Applying Kinesthetic Learning to the Classroom." Presented by: Brittany Landreth

"Digital Cameras in the Classroom." Presented by: Douglas Lewis

"Music and Memory." Presented by: Nicole Loran

"The Effectiveness of Teacher Read-Alouds and Comprehension." Presented by: Patrick Mahaney

"Dramatic Techniques in the Classroom." Presented by: Adria Malcolm

"Integrating Songwriting into the Teaching of Figurative Language." Presented by: James McDermott

"Use of Literature Circles to Improve Reading Comprehension." Presented by: Erin Moffenbeier

"Meaningful Math – Manipulatives and Written Explanations in Math Education." Presented by: Alex Montfort

"Comprehension – Making Connections with the Text." Presented by: Melissa Myers

"Identifying Children's Reading Preferences in Primary Grades." Presented by: Regina O'Looney

"Does the Use of Interactive Activities Enhance Reading Comprehension?" Presented by: Christine Paiement

"Goal Setting and a Way to Improve Self-Efficacy in Elementary Students." Presented by: Lindsay Patch

"Reading Strategies to Improve Comprehension." Presented by: Stephanie Rivelli

"I Love Math! The Effect of Cooperative Learning on Students' Attitudes Toward Math." Presented by: Blake Robertson

"The Effect of Educational Films on the Retention of Social Studies Material." Presented by: Jesse Schlender

"Systematic Desensitization to Alleviate Public Speaking Anxieties." Presented by: Cory Sepich

"Reason in Music: Effects of Listening to Comp"

Faculty Sponsor: Jacqueline Waggoner.

This is an electronic poster as well as a paper display.

4:05 p.m. - Founders Day ends.